AT-S26 Version 2.2.2 Management Software for the AT-9006 Series Gigabit Ethernet Switches

Software Release Notes

Please read this document before you begin to use the AT-S26 Version 2.2.2 management software.

Supported Platforms

Version 2.2.2 of the AT-S26 management software is supported on the following Allied Telesyn switches:

- AT-9006T Gigabit Ethernet Switch
- AT-9006SX/SC Gigabit Ethernet Switch
- AT-9006LX/SC Gigabit Ethernet Switch

This software version supports the following expansion modules:

- AT-A14 100/1000Base-T (RJ-45) Expansion Module
- AT-A15/SX 1000Base-SX (SC) Expansion Module
- AT-A15/LX 1000Base-LX (SC) Expansion Module
- AT-A16 100Base-FX (VF-45) Expansion Module
- AT-A17 100Base-FX (SC) Expansion Module
- AT-A18 10/100Base-TX (RJ-45) Expansion Module
- AT-A19 100Base-FX (MT-RJ) Expansion Module
- AT-A24/SX 1000Base-SX (MT-RJ) Expansion Module
- AT-A24/LX 1000Base-LX (MT-RJ) Expansion Module

Product Documentation

For hardware installation instructions, refer to the following guide:

- *AT-9006T, AT-9006SX/SC, and AT-9006LX/SC Installation Guide (PN 613-10851-00 Rev B)*

For software management instructions, refer to the following guide:

- *AT-S26 Version 2.0.1 User's Guide (PN 613-10852-00 Rev B)*

Both guides are available as PDF files from the Allied Telesyn web site at www.alliedtelesyn.com.

New Feature in Version 2.2.2

- Web Browser Management

  The option for disabling web browser management on the switch has been enhanced. Disabling web browser management now increases the protection to the switch from attacks by denial-of-service viruses, such as Code Red.

- Port Trunking with the Gigabit Ethernet Ports

  The management software now supports port trunking on the six Gigabit Ethernet ports on the switch. Version 2.0.1 of the management software supported port trunking only on the expansion modules. For information on this new feature, refer to Operational Notes later in this document.

Resolved Issues in Version 2.2.2

- MIB object dot1dBaseNumPorts

  The MIB object dot1dBaseNumPorts always returned the value 0. This has been corrected.

- SNMP Management Program and MAC Addresses

  A switch did not always return the correct MAC addresses when queried by a SNMP management program. This problem has been resolved.

- Activity Monitor Message

  The Activity Monitor would occasionally display the superfluous message "Found Mac All Counts=0033 Loop_count=0013." This problem has been resolved.

- Port Trunks and linkDown Traps

  The management software would generate multiple linkDown traps when a link in a port trunk failed. This has been corrected. The software now generates only one linkDown trap.

- Static MAC Addresses

  This software version supports static MAC addresses. You can enter up to 255 static MAC address per port. For instructions on displaying and modifying the static MAC address table, refer to Chapter 4 in the *AT-S26 V2.0.1 User's Guide*.

- Web-based Management Session and the Graphical Switch Image

  Previous versions of the management software did not display the graphical image of the AT-9006 Series Switch in a web-based Omega management session. This problem has been resolved. For further information on the graphical image, refer to Chapter 1 in the *AT-S26 V2.0.1 User's Guide*.

- Redundant Power Supply (RPS) Status

  The Diagnostics window now includes status information on an RPS, if installed.

- Updating the MAC Address Table and the Address Resolution Protocol (ARP) Table

  The MAC address table and the ARP table are now properly updated when a link is lost to an end node.

New Features in Earlier Version 2.0.1

- Port Security

  The management software now includes a new port security feature that you can use to set a maximum value for the number of MAC addresses each port on the switch can learn. Once the maximum value has been reached, the port will discard packets with unknown addresses. This can prevent unauthorized end nodes from accessing switch ports. You can also set a port to immediately stop learning new MAC addresses and discard any packets from unknown nodes. For further information on this feature, refer to the section "Configuring Port Security" in Chapter 3 of the **AT-S26 Version 2.0.1 User's Guide**.

- Clearing Dynamic MAC Addresses

  The management software now contains a command for clearing all dynamic MAC addresses from the MAC address table. For information on the command, refer to the section "Clearing All Dynamic MAC Addresses" in Chapter 4 of the **AT-S26 Version 2.0.1 User's Guide**.

- Port Trunking

  The Gigabit Ethernet switches now support port trunking on expansion modules that feature multiple 100 Mbps or 10/100 Mbps ports. For information, refer to the section "Creating Port Trunks" in Chapter 3 of the **AT-S26 Version 2.0.1 User's Guide**.

Resolved Issues in Earlier Version 2.0.1

- Spanning Tree Protocol and BPDU Packets

  The STP algorithm can now handle improperly configured BPDU packets from other devices. This capability reduces the possible formation of unexpected network loops in some network environments.

- Get Port From MAC Address Selection

  The Get Port From MAC Address selection in the MAC Address menu now works correctly.

Operational Notes

- Web Browser User Name and Password

  The management software will prompt you for both a user name and a password when you start a web browser management session if you assigned a password to the Omega interface. The user name is "admin". The user name cannot be changed.

- Omega Password and Special Characters

  Do not use special characters, such as a space, asterisk, or exclamation point, when creating a password for the Omega interface if you intend to manage the switch using a web browser. Most web browsers cannot handle special characters in program passwords. The Omega password should be limited to alphanumeric characters (A to Z, a to z, and 1 to 9).

- Port Trunking with the Gigabit Ethernet Ports

  The management software now supports port trunking on the six Gigabit Ethernet ports on the switch. The switch can support up to two port trunks simultaneously. Ports 1 and 2 can be used as one port trunk and ports 3 and 4 as the second port trunk. You cannot use ports 5 and 6 in a port trunk.

  Caution: Do not connect the cables to the port trunk on the switch until after you have configured the port trunk on both the AT-9006 Series switch and the remote end node. Connecting the cables prior to creating the trunk can create a data loop in your network topology, which can result in poor network performance.

  Caution: Do not activate the Spanning Tree Protocol on the ports of a port trunk.

  To create a port trunk on an AT-9006 Series Gigabit Ethernet Switch, do the following:

  1. From the Omega Main Menu, select *System configuration*.
  2. From the System Configuration menu, select *System switch configuration*.

     The following window is display:

```
                System Switch Configuration Menu

IGMP Snooping configuration

Port Trunking in the 1000M Speed Port

Return to System Configuration Menu ...
```

  3. Select "Port Trunking in the 1000M Speed Port."

     The following window is display:

```
           Port Trunking in the 1000M Speed Port Menu

Ports for port trunk 1 (01 - 02) Null (not configured)

Ports for port trunk 2 (03 - 04) Null (not configured)

Return to System Configuration Menu ...
```

4. To create a port trunk using ports 1 and 2, select the first option in the menu and enter "1-2". To create a port trunk using ports 3 and 4, select the second option in the menu and enter "3-4".

The port trunk is immediately available for use.

For instructions on how to create a port trunk using ports on an expansion module, refer to Chapter 3 in the *AT-S26 Version 2.0.1 User's Guide*.

- IGMP Snooping and VIDs

  When IGMP snooping is disabled, the AT-S26 software supports VID numbers 2 through 4096. When IGMP snooping is enabled, the management software supports VID numbers 2 through 2047.

- Quality of Service and Flow Control on AT-9006T 100M Ports

  The Quality of Service and flow control features are disabled on an AT-9006T port when the port is operating at 100 Mbps. Head or Line Blocking (HOLB) is automatically enabled when a port operates at 100 Mbps.

- Supported MIBs

  Version 2.0.1 supports the following MIBs:

  RFC 1213 (MIB-2)
  RFC 1215 (Trap MIB)
  RFC 1493 (Bridge MIB)
  RFC 1573 (Interface Group MIB)
  RFC 1643 (Ethernet-like MIB)
  Private MIB (FSTSWITCH.MIB, AT-IF.MIB)

- Statistics Counters

  The RMON statistic counters do not include packets with errors, such as CRC errors, fragments, and jabbers. Also, the multicast transmit counter is incremented by flooding unicast traffic. Additionally, the SNMP InErrors counter MIB object does not include fragments.

- Long Frame Counter

  This counter erroneously includes packets of 1523 to 1536 bytes in size.

- Terminal Configuration Menu

  The following options have been removed from the Terminal Configuration Menu:

  ```
  VT100-compatible/ANSI
  Generic "dumb" terminal
  ```

- Telnet and Local Management Sessions

  You cannot run a Telnet management session and a local management session on the same switch simultaneously. Always be sure to properly exit from a Telnet or local management session to prevent future management sessions from being blocked.

Limitations

- Upgrading the AT-S26 Management Software Switch to Switch

  You cannot upgrade the AT-S26 management software switch to switch. To upgrade switch software, you can use TFTP or the RS232 port on the switch and XModem. For further information, refer to Chapter 8 in the *AT-S26 Version 2.0.1 User's Guide*.

- Port Mirroring

  This version of the management software does not support port mirroring.

- IGMP

  AT-S26 Version 2.0.1 supports IGMP Version 1.0, but not Version 2.0.

- RMON and Uplink Ports

  RMON alarms and the RMON log are not generated for uplink ports.

- Dynamic Host Configuration Protocol (DHCP)

  The switch will not release an IP address assigned to it by a DHCP server after the lease has expired. You can either assign the switch an IP address manually through the Omega interface or you can configure the DHCP server to permanently assign an IP address to the switch.

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